8449

Diag. Cht. No. 1209-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. GI-1158 Office No. H-8449

LOCALITY

State Massachusetts

General locality Nantucket Island

Locality Nantucket Harbor to Great Pt.

1958

CHIEF OF PARTY

C. A. Schoene

LIBRARY & ARCHIVES

DATE December 3, 1959

USCOMM-DC 5087

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H - 8449

Field No. GI- 1158

State		MASSACH	USETTS			
General locality						
Locality Ma	ntucket t	tarbor Is	to Great LAND NORTH	· P+,		
Scale	1:10,000	<u>-</u>	Date of surve	/ 30 JULY ·	- 25 SEPT.	1958
Instructions dated						
Vessel	U.S.C.	& G.S.	Ship G I	LBERT		
Chief of party	CHARLES A	. SCHOENE	GOMMANI	DER, C&GS	· 	
Surveyed by Lt.	D. L. Campbel	l; Ens.	R. H. Garne	tt, Jr.; E	ns. W. N.	Grabler
Soundings taken by	y fathometer , gra	fodel 808 aphic record	ler, hand lead,	wire pole.		*****
Fathograms scaled						
Fathograms checke	ed by personne	l of Shir	GILBERT			
Protracted by		. 4 4	~ 4			
Soundings penciled						_
Soundings in = fa	thuma feet	at ML	W MILEW			
Remarks:						

to the second control of the second control						

A. PROJECT

Work on Sheet H-8249 (GI-1158), Project CS-369, is in accordance with Instructions 22/MEK,S-2-GI dated 21 October 1957.

B. SURVEY LIMITS AND DATES

This survey is located in Nantucket Sound along the north side of Nantucket Island. It is bounded by the following: Lat. 41° 16'.5 on the south and 41° 23'.5 on the north, and Long. 69° 59'.5 on the east and 70° 06'.0 on the west.

Field work began on 30 July and ended on 25 September 1958. This survey makes junction on all sides with contemporary surveys as follows:

H-8172 (PAR-2354) Tonchen O.K.

H-8171 (PAR-2154) Must me an H-8171 (Unverified Nov. 14, 1962)
Unverifie d (Nov. 14, 1962)
Unverifie d (Nov. 14, 1962)

The inside harbor required some skiff work due to the large areas of shoal water.

C. VESSEL AND EQUIPMENT

Hydrography on this sheet was accomplished primarily with LAUNCH CS-180, vising Model 808 fathometers Nos. SPX-159 and SPX-161. The extensive shoal areas inside Nantucket Harbor were surveyed by a 16' aluminum skiff, using a leadline.

(Fathometers Nos. SPX-159 and SPX-161. The extensive shoal areas inside Nantucket Harbor were surveyed by a 16' aluminum skiff, using a leadline.

(Fathometers Nos. SPX-159 and SPX-161. The extensive shoal areas inside Nantucket Harbor.

The launch and skiff were operated from the Ship GILBERT, which moored alongside the ferry pier in Nantucket Harbor.

The turning radius of LAUNCH CS-180 is approximately 30 meters.

A sounding pole was used in some areas of shoal water to verify the fathometer soundings.

D. TIDE AND CURRENT STATIONS

Tide Reducers for the 1958 work were obtained from a portable tide gage at Brant Point, with no time or range corrections. On those days when the portable gage was inoperative Tide Reducers obtained from the Boston Standard Gage were applied, with a plus-30-minute time correction and a 0.3 range ratio.

No current stations were observed during the 1958 season.

E. SMOOTH SHEET

The smooth sheet for this survey will be constructed and plotted at the Norfolk Processing Office.

F. CONTROL STATIONS

The basic control for this survey is triangulation executed during the last century. The topographic stations were located by photogrammetric methods from topographic manuscripts T-11217, T-11220 and T-11221, all dated 1955. Sextant cuts were taken to some topographic stations to check their location. Stations HUB, LAX, and PIT were located in accordance with Section 2394A of the Hydrographic Manual and are therefore considered less accurate than the other topographic stations. This is expected not to have any effect on the position accuracy of the soundings.

F. CONTROL STATIONS (continued)

The hydrographic stations were located by sextant cuts taken from ship / and ashore.

The accuracy of the locations of all signals is considered to be satisfactory, and no trouble was experienced with signal locations during the survey.

G. SHORELINE AND TOPOGRAPHY

All shoreline on the boatsheet was obtained from Advance Manuscripts Nos. T-11217, T-11220, and T-11221. OF 1955.

The shoreline in the vicinity of Long. 70° 02.50' from Lats. 41° 22.96' to 41° 22.71', was revised by three point fix methods while walking the high water line (see Vol. 1, pp 21-23). This discrepancy was called to the hydrographer's attention by the fact that hydrographic signals located along the high water line plotted a considerable distance off shore on the boatsheet. Further investigation, as described above, revealed the necessity for a revision of the shoreline. It is recommended that the revised shoreline be used in this area.

The low water line was not completely defined during this survey. IAUNCH CS-180 has a draft of approximately 4', and the tides during the progress of hydrography were inadequate to permit complete development. Much Live line from T-sheets

H. SOUNDINGS

All soundings were recorded in feet using Model 808 fathometers, sounding pole, or leadline.

There were no unusual methods or equipment used, and no unusual corrections were applied. For method used to obtain fathometer corrections, see FATHOMETER REPORT - 1958.

Soundings were generally read to the nearest foot, but occasionally to 0.5 foot. Index and tide corrections were applied to the nearest 0.2 foot. Velocity corrections were applied to the nearest 0.5 foot, and phase corrections were entered to the nearest 0.5 foot. There are abstracts of these corrections in the Appendix of this report.

It should be noted that all hydrography is recorded by days but not in consecutive volumes. The days and position numbers included in a particular volume are listed on the front cover of each volume. This method was adopted to permit scanning of the fathograms prior to putting soundings on the boatsheet.

I. CONTROL OF HYDROGRAPHY

Standard visual fix methods were used for the entire sheet. In some areas a Shoran distance was used for the purpose of improving the system of lines by running arcs. No Shoran calibrations were made and Shoran readings may be disregarded in plotting.

J. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supersede all prior #7 surveys except as noted in Section N of this report. Junctions with adjoining Review surveys are satisfactory, with no holidays. Depth curves may adequately be drawn.

K. CROSSLINES

Crosslines total about 8% for this survey. Some discrepancies in excess of the prescribed limits were noted on the boatsheets. However, it is felt that ν all discrepancies will resolve themselves when the smooth sheet is plotted.

L. COMPARISON WITH PRIOR SURVEYS

This survey was compared with the following surveys:

Н	_	1163	-	1872;	1:20,000
Н	_	1878	_	1888;	1:20,000
Н	_	2168	'	1893;	1:10,000
Η	_	2312	-	1897;	1:10,000

See PRABB of Review

The general agreement is considered to be very good. The washout across the "Haulover" shown on Survey H-2312 was closed up. Some bottom changes have taken place and some shoaling has occured. These items are listed in Section N of this report.

M. COMPARISON WITH CHART

This survey was compared with Charts 1209 and 343, both corrected through 12 April 1958. All discrepancies found are listed in Section N of this report.

See #7 of Review.

N. DANGERS AND SHOALS

-							
Boat			Pos.No.	Prior	a, .	.	
Sheet			& Day			Recommen-	
nebrii Ta	titude	Longitude		Depth			737.
0 41°	19.351/	70° 01.801/	76 f	$6\frac{1}{2}!$	61	Chart new de	oth Sand spit on
	37					(from Bass 1	oncroaching.
0 41°	18.871	70° 01.50 V	13 g	· ·	61	Chart new dep	oth. 🗸
31 📑 4 1 0	17.781	70° 04.261/	79 -	Rocks	Rocks	Rem.fr.	30 min.spent
See	- overlay	? rollancheum	96 ba	shown	charte	ed chart	in cartwheel
•	rocks .						type invest n
	or phot			<i>.</i> • • • • • • • • • • • • • • • • • • •			Numerous gras
3						•	patches vsble
51 40°	18.501/	70° 05.551/	56 –		3!		Further invest n
4 pres.	surey		57 q			sounding 10+	needed to dis-
				*		<i>.</i>	prove.
7' 41°	18,701√	70° 02.00'	94 -	6-3/41	Less	Change con-	Channel found
			116 w		than	tour of 6'	at this point.
A					61	curve.	
7' , 41°	17.901	70° 04.261	,96 ba	Rock	Sunk-	Reinvestigate	No check angle
Rock Co	ck shows	non color s	ngros	shown.	en rk.	nxt fld seas.	deletethtained.
81" 410	19.381	70° 02.081/	189 -	6-3/41	324	Chart new dept	th see 1974
•			190 u		turn o	of survey line.	
12' 41°	20.391	70° 00.591	99 -	10'	21	Chart new dept	th 🗸
	<u> </u>		102ba	•.	12		
/10	17.781		and the second second	Chart	shows t	wo rocks in a	rea. One rock
-4-4-			~ ~			ther invest'n	
						7A-I Periew	

N. DANGERS AND SHOALS (continued):

In the area north of Coatue Beach and west of Long. 70° 03.50', shoaling was noted. The 6' curve has become irregular, and shows signs of sand waves. The shoal previously plotted at Lat. 41° 18.90', Long. 70° 04.40' has moved shoreward to Lat. 41° 18.80', Long. 70° 04.10', and has decreased in depth from 4' to N. Revise depth curves in this area.

All dangers and shoals were found as charted except those listed above.

O. COAST PILOT INFORMATION

Section B. FEB 1 1 1959

United States Coast Pilot; Atlantic Coast, Section B.

(Insert where desirable)

Page 156 - lines 35-37 read: Head of the Harbor. In 1958 it was reported that not more than $3\frac{1}{2}$ feet could be taken safely as far as the village of Wauwinet, on the southeast shore of Head of the Harbor. Shoals extend off Third Pt., Five Fingered Pt., Bass Pt., and Wyers Pt., on the northeastern shore and from Pocomo Head and Shimao Pt., on the southwestern shore. The Head of the Harbor has several unmarked shoals and foul areas, and is used only by local residents in small craft.

P. AIDS TO NAVIGATION

The positions of all aids to navigation located in this area have been \checkmark previously determined.

All floating aids to navigation have been located and are listed below:

Buoy	<u>Latitude</u>	<u>Longitude</u>	Depth	Date Located	Pos. Day Letter
Channel Buoy 9 / Anchorage Buoy A / Anchorage Buoy B /	41° 17.52' / 41° 17.59'39 41° 17.18' -	70° 05.2913/	16'	22 Sept 1958	Black 1 unwhite 233 aa White 19 vn

There are no bridges and no overhead cables in this area. <

There is a cable crossing with termini at Lat. 41° 17.40', Long. 70° 05.45' (slightly north of Brant Point L.H. - 1910, 1932) and at Lat. 41° 17.68', Long., 70° 05.10' (Signal POLE).

Two ferries, one from Woods Hole, Mass. and one from Hyannis, Mass., use the only channel from Nantucket Sound to Nantucket Harbor, and dock at wharves that are not covered by this sheet.

$Q_{\cdot} - Y_{\cdot}$ Not applicable.

<u>Z.</u>	The following	data a	re connec	ted	l with this	hydrogr	aphic survey:
FATHOMETER	REPORT,	tra	nsmitted	to	Washington	Office	7 November 1958.
SEASON'S RE	PORT,		11	ŧŧ	tt _	11	5 December 1958.
SHORAN REPO	DRT.		tt	11	tt	11	7 November 1958.
	TRÍC REPORT,		If	11	1\$	11	21 January 1959.
TRIANGULAT	ON REPORT,		t†	11	tt	n	13 December 1958.

AFPROYED AND FORWARDED:
Charles A. Schoene, Cdr, C&GS,
Commanding Ship GILBERT.

Respectfully submitted,

William N. Grabler,

Ensign, C&GS.

TIDE NOTE

Tide Reducers for Sheet H-8449 (GI-1158) were obtained in accordance with letters 36-330-982gi, dated 11 September 1958, and 36-333-982gi, dated 12 September 1958.

Brant Point tides were used direct on all days for which information was available. Otherwise, Boston tides were used with a $\pm \frac{1}{2}$ hour time correction and a 0.3 H.W. height ratio.

Brant Point (Portable Gage)

Latitude - 41° 17' 24"/

Longitude - 70° 05' 35"/

No time or height correction.

Entire area of Sheet H-8449 (GI-1158)

S T A T I S T I C S for HYDROGRAPHIC SURVEY NO. H-8449 (GI-1158)

July 30	Launch 180 Date	Volume Number	Day Letter	Fathometer Number (808)	Number of Positions	Nautical Miles Sounding Line
August 6 2 b 159 71 7.2 7 3 c 159 174 30.4 8 4 d 159 195 32.5 10 2 & 3 e 159 133 20.4 11 4 f 159 195 32.5 11 4 f 159 193 20.4 11 1 4 f 159 199 210 30.2 11 2 3 & 5 g 159 216 24.3 13 6 h 159 210 30.2 20 5 j 159 87 16.1 21 6 k 159 60 9.8 22 5 1 159 173 29.5 23 6 & 7 m 159 218 23.5 24 8 n 159 202 21.2 25 7 p 159 106 15.6 26 7 q 159 104 22.2 27 8 r 159 172 27.3 28 r 159 172 27.3 September 7 9 s 159 104 22.4 8 n 159 225 24.0 9 9 u 159 225 24.0 9 9 u 159 225 24.0 9 9 u 159 284 41.7 18 11 x 159 18 19.9 11 11 x 159 284 41.7 18 11 x 159 13 1.8 19 11 & 12 y 159 194 20.5 20 13 x 159 25 24.0 21 2 aa 159 25 24.0 22 12 aa 159 25 24.0 23 1 c 1 c m 9 25 1.7 24 13- ba 159 117 11.0 25 13 ca 159 25 25 2.2 24 13- ba 159 117 11.0 25 14 h m m 1 142 10.8 August 11 1 a m 1 2 Detached Positions 24 1 c m 23 1.5 Skiff Totals 195 104 Positions Skiff Totals 195 105 105 105 105 105 105 105 105 105 10	Tul vr 30	2			21.1.	25.7
7 3 c 1.59 174 30.4 8 4 d 159 195 32.5 10 2 & 3 e 159 191 25.0 11 4 f 1.59 191 25.0 12 3 & 5 g 1.59 216 24.8 13 6 h 1.59 210 30.2 20 5 j 1.59 87 16.1 21 6 k 1.59 60 9.8 22 5 1 1.59 218 23.5 24 8 n 1.59 202 21.2 25 7 p 1.59 106 15.6 26 7 q 1.59 106 15.6 27 8 r 1.59 106 15.6 26 7 q 1.59 172 27.3 September 7 9 s 1.59 172 27.3 September 7 9 s 1.59 172 27.3 September 7 9 s 1.59 124 22.4 8 10 t 1.59 225 24.0 9 9 u 1.59 244 28.5 10 10 & 11 v 1.59 284 41.7 18 11 x 1.59 13 1.8 11 11 w 1.59 284 41.7 18 11 x 1.59 13 1.8 19 11 & 12 y 1.59 13 1.8 19 11 & 12 y 1.59 13 1.8 22 12 aa 1.59 25.4 24 13- ba 1.59 25.4 25 13 ca 1.59 25.4 September 21 1 d Lead Line 64 1.8 September 21 1 d Lead Line 64 1.8 August 11 1 a " " 85 2.2 24 1.6 1.4 g " " 120 7.7 Launch CS-180 Total 4517 581.4 Skiff Totals 23 Detached Positions Skiff Totals		2				
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TOTALS 5012 606.1						***
	· 			TOTALS	5012	606.1

Square statute miles of sounding = 14.8

" Nautical " = 11.2

LIST OF SIGNALS FOR H-8449(GI-1158)

Topographic

See HPO Segual Cest

The following signals were located in accordance with section 2392 of the Hydrographic Manual.

Abe		T-11217	Hid	T-11221
Bed	• • • •	T-11217	Ice	T-11221
Cry	• • • •	T-11217	Joe	T-11221
Day		T-11217	Lip	T-11221
Egg	• • • •	T-11221	Pole	
Fat		T-11221	Pond	T-11217
Gem	• • • •	T-11221		,

The following signals were located in accordance with section 2394A of the Hydrographic Manual.

Hub T-11217 Lax .U.. T-11221 Pit T-11221

Hydrographic

The cuts locating these signals will be found in volume 1.

Act	Five	Mat	*She
Ask	Gal	Nat	Tan
Bib	*Gus	*New	*Tax
#Boa	H is	Oak	Tip
∜D eb	Ivy) Old	Tuck
#Doc	Jap	Pep	Vet
E bb	Ken	Pin	∜War
Ego	Kid	Rig	*Woo
#Far	Log	Rum	Wye
Fig	Mag	Sal	Yes
	_		7.20

*-The location of these signals may be verified by using planimetric manuscript T-11217

#- The location of these signals may be verified by using planimetric manuscript T-11221

TABULATION OF PHASE COMPARISONS

1958 Field Season

FATHOME	TER		DATE	B to A	C to B	D to C	B to A	C to A	D to A
808 No.	159	15	July	+1.1					
#	Ħ	14	Aug.	+0.7	+0.9				
Ħ	Ħ	7	June	+1.1					
Ħ	Ħ	12	June	41.1					
Ħ	Ħ	21	June _	(+0.4)R					
			Mean Enter	+1. 0	+0.9		+1.0 +1.0	+1.9 +2.0	42.0
808 No.	161	14	Aug.	+0.1	+1.0		+0.1	<i>f</i> l.1	
			Enter				0.0	+1. 0	
808 No.	162	15	July	0.0					
Ħ	Ħ	26	#		-0.5	0.0			
Ħ	Ħ	29	11	-1.0					
Ħ	11	31	" _		-0.7		****		
			Mean Enter	-0.5	-0/6		-0.5 66')-0.5 66')-1.0	-1.1 -1.0	-1.1 -1.0

COMP. J.H. C.D.K.

ABSTRACT OF VELOCITY CORRECTIONS

(in feet)

SHIP GILBERT

808 No. 162

	ru 27 June 1450 (GI-2157)	11 July thru 10 August SHEET H-8450 (GI-2157)				
Corr.	Depth	Corr.	Depth			
+0.5	0.0 - 66.0	+0.5	0.0 - 59.0			
0.0	66.0 - 140.0	+1.0	59.0 - 122.0			
		+1.5	128 to - 120 to			

LAUNCH CS-180

808 No. 159

7 June thru 12 June SHEET H=8450 (GI=2157)	24 July thru 9 August SHEFT H-8450 (GI-2157)
0.0 0.0 - 74.0 -1.0 74.0 - 140.0	0.0 0.0 - 130.0
	50 July thru 26 August
21 June thru 27 June SHERT R-8450 (GI-2157)	SHEETS H=8449 (GI=1158) & GI=1258 0.0 0.0 = 25.0
	+0.5 23.0 - 61.0
0.0 - 92.0	
-1.0 92.0 - 152.0	7 Sept. thru 25 Sept.
10 July thru 14 August	SHEETS H_R449 (GI_1158) & GI_1858
SHEETE H_8450 (GI_2157)	0.0 0.0 - 51.0
0.0 0.0 - 130.0	+0.5 51.0 - 70.0

808 No. 161

25 July thru 30 July SHEETS H_8450(GI_2157) & H_8449(GI_1158)

0.0 - 150.0

30 July Only SHEET H-8449 (GI-1158)

0.0 - 48.0

Laumon CO-100 Dar Clieck Abstract Sheet CI-1158 From 7/30 to 8/26

808 No. 159 NEX Initial set at 1.0 Seet

	Initial set at 1.0 Cest								
Dute	Day Letter	Vol.	<i>I</i> 0 •	201	3 0 1	4:1	401		
			0.1	0.1	0.0	0.05	0.8		
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8/7	•	3	0.4	0.4			(1.95)1		
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6/10	•		0.1	0.3	0.2	0.2	1.5		
8/11	\$	4	0.2	0.3	0.3	•			
8/12	Ę	5 6	0.2	0.5	0.3				
8/13	h		0.15	0.4	0.4				
8/20	3	5	0.25	0.45	0.2				
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7/30	}		0.2		al s	Ç , Ş	O.L.		

V

See NPO Sequentlest

LIST OF SIGNALS FOR H-8449 (GI-1158)

Triangulation

BRAN - Brant Point Light House, 1910,1932

COAT - Coatue, 1955

FIN - Finger, 1949

GREAT - Nantucket Great Point Light House, 1867

JET - East Jetty, 1910

OMNI - VOR, Nantucket Radio ACK, 1955

POC - Pocomo Head, 1893,1932

POINT - Brant Point Light House, 1867

SAN - Sandy, 1955

SQUAM - Squam Head 2, 1887,1932

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 8, 1959

Division of Charts: R. H. Carstens

Plane of reference approved in 14 volumes of sounding records for

HYDROGRAPHIC SHEET 8449

Locality Nantucket Island, Mass.

Chief of Party: C. A. Schoene in 1958
Plane of reference is mean low water, reading
2.8ft. on tide staff at Brant Point lar,
5.9ft. below B. M. 10A (1910)

Height of mean high water above plane of reference is 3.0 feet.

Condition of records satisfactory except as noted below:

Chief, Tides Branck

XERDONY NIDVIENCE EN EXECUTE EN SERVICE EN EL SERVICE EN E

H18449 61-1150 61-1158 G-1258 14. K. T. P. + 0.0 ' 0.0 to 1.0 1.0 to 0.0 to 7.0 to 0.0 to 7.0 To 0.0 +12 ale datto Com the work (Phose Cor) o.o. from o.o though 0 Cont. Thronort Leh. 180 Forth 808 No. 1595PK 15.20 Aug. 1958 "B" scale -180 SPX 1011 2 Sash 30 July

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"A" Scale			
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40.6	7.0+	7.00	0
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H-8449	808 Fath. 16. 161		
	Lch. 180		
(4:1158			

NORFOLK PROCESSING OFFICE LIST OF SIGNALS To Accompany

HYDROGRAPHIC SURVEY H-8449 (Gi-1158)

TRIANGULATION STATIONS

BRAN	BRANT POINT L.H., 1910-32
COAT	COATUE, 1955
FIN	FINGER, 1949
GREAT	NANTUCKET, GREAT PT. L.H., 1835-1932
JET	EAST JETTY LIGHT, 1955
OMNI	VOR, NANTUCKET RADIO ACK, 1955
POC	POCOMO HEAD 2, 1932
POINT	BRANT POINT L.H., 1867
SAN	SANDY, 1955
SQUAM	SQUAM HEAD 2, 1887-1932

TOPOGRAPHIC STATIONS

T-11217	T-11220	<u>T-11221</u>
		Egg
A be	Lip	Fat
Bed	Pole	Gem
Cry		Hid
Day		Ice
Pond		Joe

HYDRO	GRAPHIC	STATIO	<u>NS</u>	(Angle	s in Vo	T• T)		
Act	Ask	Bib	Boa	Deb	Doc	Ebb	Ego	Far
Fig	Five	Gal	Gas	Gus	His	Ivy	Jap	Ken
Kiď	Log	Mag	Mat	Nat	New	Oak	Old	Pep
Pin	Rig	Rum	Sal	She	Tan	Tax	Tip	Tuck
Vet	War	Woo	Wye	Yes	Zag			

PLANIMETRIC FEATURES

T-11217	<u>T-11221</u>
Hub	Lax
	Pit

OTHER STATIONS

*Key (Not Inked on B.S. N.41°17.95' & 1.70°05.65')

^{*}From boat sheet. No position furnished.

NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8449

GENERAL

This appears to be an excellent basic survey, and while no unusual conditions were encountered, a considerable amount of reprocessing was required for the smooth plot.

VELOCITY CORRECTIONS

The Field compiled a fairly comprehensive bar check abstract for this survey and then combined the results with temperature and salinity corrections observed for the adjoining off-shore survey. (See the Fathometer Correction Report previously submitted with survey H-8450). With permission of the Comdg. Officer, velocity corrections were compiled from the bar check abstract and applied to the soundings to the nearest 0.2', rather than to 0.5' as entered in the volumes. Corrections were small and this change resulted in a maximum difference of only 0.3'.

SOUNDINGS

Agreement of soundings is considered good as crossing dis-

crepancies were in most instances, less than 1.0'.

A complete rescanning and reprocessing of the records was required as the original scanning was done at thirty second intervals and soundings were read to the integral foot. Also, some corrections were enterededo the nearest toot.

All fathograms were rescanned in the Processing Office and the soundings were reduced with templates at 15" intervals. All y corrections were applied to the nearest 0.2'. These soundings were recorded in the "office column" and the original soundings were left in the volumes for comparative purposes.

CONTROL

Good closures were obtained on the sextant angles used to locate the numerous hydrographic signals. Their accuracy is believed to be entirely adequate for controlling a survey of this type.

OVERLAYS

941°17.78' > 70°04.26'

Positions 79 thru 96ba, showing developement over two charted rocks awash, are being submitted on an overlay. The 2' and 3' soundings shown on the smooth sheet in this area were not confirmed on this investigation. These two soundings appear on the fathograms at pos. 209m, and between 110 and 111 aa days. They may possibly be clumps of grass, how-ever, the latter indication shows a fairly strong second echo that may be one of the rocks.

See Charts 1209 and (con't) feet in area. 343 for comparison.

Color photos

DISCREPANCIES

The two wrecks along Coatue Beach were not confirmed or disproved on this survey. (Note P & D.R., of T-11,221), pg/0 Sec P7A-2 Review

Norfolk, Va. 24 November 1959

Respectfully submitted,

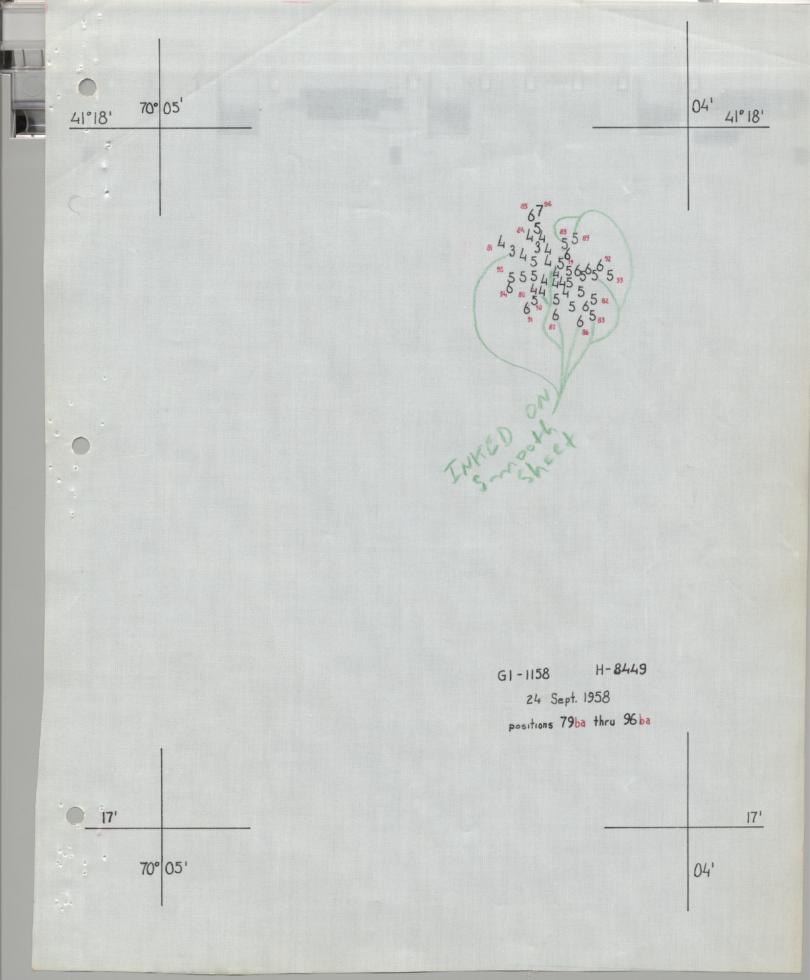
Hugh L. Proffftt

Cartographer

NOTES TO VERIFIER COMPARISON OF H-8449 AND T-11221

The surveys were compared during the review of T-11221. T-11221 was revised from 1961 and color and infrared photography prior to review, for use in compiling or revising nautical chart topography (PH-6102). Review was limited to topographic information to be used in the revision of Nautical Chart Drawing 343. A report for this partial review is a part of the Descriptive Report for T-11221 (PH-116). A difference in position exists for the offshore rock at Lat. 41°17.75' Long 70°04'.

Chart #343, tenth ed. (10-15-62) seems convect. Definitely either "foul, area as shoal, rough bottom. (See fathograms) -33" h, (vol.14, P.31), 2" a" (vol.1, P.16) and 1 "e" (vol.1, P.36) indicate rocks or awash at datum. Furthernore, I wonder whether the left angle at 2" a" (vol.1, P.16) was read at "POINT", instead of "BRAN". Attention is directed to "Supplemental Compilation Report", T-11,221, and to Mr. Blankenbaker's review of T-11,221. Also note It no. 7 of the D.F. for T-11,221. Finally, see the volume and fathogram, pos. 13-14" m" (vol.6, P.59). Conclusion: difference of interpretation ration than conflict. Planimetric Manuscript T-11,221 (1961) differs "adically from the Advance of T-11,221 based on 1955 photos. Shoreline on smooth-sheet is held to the earlier photos. See this D.R., verifier's to this investigation.



FORM 197 (3-16-55)

Or designs street Q. Cinde of Mag **GEOGRAPHIC NAMES** FIOTINGTON SUCT Or local Made Survey No. H-8449 Ε Name on Survey В F Atlantic Ocean BGN Massachusetts Titl Nantucket Island Brant Point (Tidestation) Nantucket Harbor 5 BEN 6 Pimnys Point 11 Shimmo Point Folpis Harbor 17 8 Pocomo Head Head of the Harbor 10 Wauwinet 11 BEN Great Point 12 Wyers Point 13 Bass Foint 14 15 Five Fingered Point 16 Third Point 17 Coatue Beach 18 Second Foint 19 Coatue Foint (apply as pencil ed pending Nantucket Sound EGN decisibn) 20 21 Names approved 22 2-24-60 L. Hear 23 24 25 26 27

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8449

FIELD NO. GI-1158

Massachusetts, Nantucket Island, Nantucket Harbor to Great Point

SURVEYED: 30 July - 25 Sept. 1958

SCALE: 1:10,000

PROJECT NO. CS-369

SOUND INGS:

808 Fathometer

Leadline

CONTROL: Sextant

fixes on shore signals

Sounding Pole

W. N. Grabler

Protracted by------Norfolk Processing Office Soundings Plotted by------Norfolk Processing Office Verified and Inked by------S. Rose

Reviewed by-----R. H. Carstens

Date: 3/1/65

1. Description of the Area

This survey covers that portion of Nantucket Sound which lies on the north side of Nantucket Island between Coatue Point and Great Point, and extends from shore to depths of about 45 feet. It also covers Nantucket Harbor and the lagoon which lies northeast of the Harbor. On the outer coast south of approximately Lat. 41°20.0', the bottom is very irregular in depths less than 6 ft. Here shoals, ridges and deeps contribute to the bottom irregularity. The bottom is very irregular in Nantucket Harbor and the lagoon where ridges, shoals, deeps, spits and flats contribute to the bottom irregularity. The bottom irregularity throughout the area covered by this survey is attributed to the action of the current on the bottom and to storms.

2. Control and Shoreline

The source of the control is given in the Descriptive Report.

The shoreline originates with reviewed photogrammetric surveys T-11217A, T-11220A and T-11221A of 1955, supplemented by shoreline shown in red in the vicinity of lat. 41°22.9', long. 70°02.5', which was located by sextant fixes by the hydrographic party.

3. <u>Hydrography</u>

Depths at crossings are in adequate agreement. The usual depth curves except for low-water, were adequately delineated. It was not always feasible to delineate the low-water depth curve due to the draft of the sounding launch which was 4 ft., and the range of tide which was 3 ft. Supplemental low-water determination was obtained from the photogrammetric surveys. The 3 ft. depth curve was drawn to better define the bottom configuration.

4. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The smooth plotter revised the reduced depths in the sounding volumes in order to comply with rules in the Hydrographic Manual as follows:
 - (1) Many depths which were recorded in intergral feet were revised to half feet.
 - (2) Intervals between soundings were revised from 30 seconds to 15 seconds.
 - (3) Velocity corrections were revised from 0.5 ft. to 0.2 ft.

5. Junctions

Adequate junctions were effected with H-8497 (1958) and H-8172 (1954-56) on the west and with H-8171 (1954-56) on the south.

6. Comparison with Prior Surveys

H-180 (1846), 1:10,000 H-181 (1846), 1:20,000 H-223 (1847-48), 1:40,000 H-527 (1855-56), 1:30,000 H-1163 (1877), 1:20,000	H-1878 H-2168 H-2312	(1893), (1897),	1:5,000 1:20,000 1:10,000 1:10,000 1:40,000
H-1163 (1877), 1:20,000			1:40,000

These prior surveys together cover the area of the present survey. A comparison between the prior and present surveys reveals changes in the shoreline and the bottom configuration. These changes are attributed to natural and artificial causes, such as the action of the current on the bottom, to storms and the construction of the jetties at the entrance to Nantucket Harbor.

Great Point at the north end of Nantucket Island in the vicinity of lat. 41°23.1', long. 70°02.8', has accreted about 400 meters. In the vicinity of the jetties both erosion and accretion of the shoreline has occurred. The northwest end of Coatue Point has accreted about 450 meters while in the vicinity of lat. 41°17.7', long. 70°05.0', the south end has eroded about 125 meters. Brant Point in the vicinity of lat. 41°17.36', long. 70°05.45' has eroded about 40 meters. The shoreline in the Head of the Harbor in the vicinity of lat. 41°20.5', long. 70°00.6' has accreted about 400 meters. A haulover formerly located in the vicinity of lat. 41°20.3', long. 70°00.2' in 1897 has filled in and no longer exists.

In Nantucket Sound south of lat. 41°20.0', the bottom is in a state of constant flux. Here differences in depths between the prior and present surveys of as much as 5 ft. are found, as for example in lat. 41°18.75', long. 70°04.4', where a sand ridge with a least depth of 2 ft. on the present survey falls in prior depths of 6-7 ft.

The 12-ft. depth curve is located on the present survey as much as 100 meters further inshore than on the prior surveys. In a few areas the bottom has deepened, as for example in lat. 41°18.9', long. 70°04.68', where a prior depth of 8 ft. falls in present depths of 15 ft. Elsewhere in Nantucket Sound only minor differences of 2-3 ft. in depths are found. The present depths here are generally shoaler.

In Nantucket Harbor and the lagoon to the northeastward, the bottom is very irregular. Here submarine features such as spits, sand ridges, shoals and deeps contribute to the bottom irregularity. In the entrance to Nantucket Harbor at Brant Point, in lat. 41°17.43', long. 70°05.43', prior depths of 25-29 ft. fall in present depths of 35 ft. The spit which begins at the shoreline in the vicinity of lat. 41°18.92', long. 71°02.7' and runs in a southeastward direction, extends about 200 meters further on the present survey than formerly. Present depths in Nantucket Harbor and the lagoon are generally 2-3 ft. shoaler than the prior depths.

The sunken rock charted in lat. 41°17.90', long. 70°04.26', from H-181 (1846) falls in present depths of 7 ft. An examination of the color photographs of this area failed to reveal a sunken rock at the above-mentioned location. The feature is considered to be non-existent and should be deleted from the chart.

The present survey is adequate to supersede the prior surveys within the common area.

7. Comparison with Chart 265 (Latest print date 6-15-64)
343 (Latest print date 10-12-64)

A. Hydrography

The charted hydrography originates with the present survey prior to verification and review. Only minor differences of 1-2 ft. in depths between the charted and present survey depths are noted.

1. The sunken wreck charted in lat. 41°18.81', long. 70°04.28', from H.O. N to M 35/62, where it is

242

described as a derelict barge, was charted subsequent to the present survey.

345

343

- 2. The 2 rocks awash charted in lat. 41°17.67', long. 70°04.02', and lat. 41°17.76', long. 70°04.01', respectively from photographic survey T-8204 (1948-49) are replaced by one rock awash on the present survey. These features should be charted to agree with the present survey.
- The wreck charted in lat. 41°17.97', long.

 70°04.92', originates with photographic survey
 T-8204 (1948-49) where it falls on the high-water
 line. The wreck was not located during the
 present survey and is not shown on photogrammetric
 survey T-11221A (1955). The feature is considered
 to have disintegrated and, therefore, should be
 deleted from the chart.
- 4. The two rocks-awash at chart datum symbols charted in the vicinity of lat. 41°17.9', long. 70°02.45' originate with sunken rock symbols on T-12500 (1961). A rock uncovering 1 ft. at mean low water was found by the present survey in this vicinity. Adjacent sunken rock symbols shown on the present survey are from T-11221A (1955).

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

The present survey positions of the charted aids are in substantial agreement with the charted positions and adequately mark the features intended.

The present survey designation of buoy C"9" located in lat. 41°17.50', long. 70°05.46', was revised to its charted designation of C"11" subsequent to the present survey in accordance with H.O. N to M 15, 1961.

8. Compliance with Project Instructions

The survey adequately complies with the project instructions.

9. Additional Work Recommended

This is a good basic survey and no additional field work is recommended.

Examined and Approved:

ssociate Directo

Hydrography and Oceanography

Wallace A. Bruder Acting Chief,

Marine Chart Division

H-8449

Information for Future Presurvey Reviews

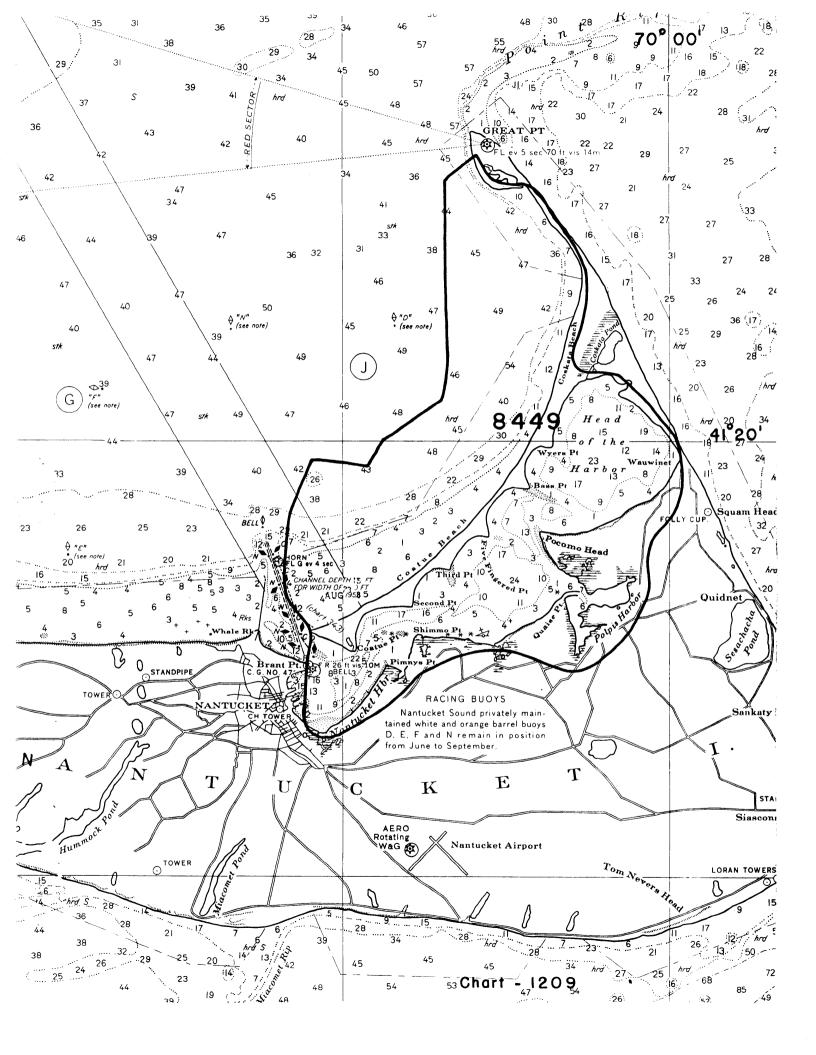
This survey covers an area where the bottom configuration and shoreline may be expected to change due to strong currents, storms and the construction of the jetties leading into Nantucket Harbor. Erosion and accretion of the shoreline may be expected at Great Point and Coatue Pt. The shoreline at the north end of Head of the Harbor may continue to accrete.

The location and existence of the sunken wreck charted subsequent to the present survey in lat. 41°18.81', long. 70°04.28', should be confirmed or disproved. The feature originates with H.O. N to M 35, 1962.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. . . 81419 ...

Records accompanying survey:		
Boat sheets; sounding vols; w	vire drag	g vols;
bomb vols; graphic recorder rolls	15-Enve	olopes
special reports, etc. 1-Smooth sheet, 1-D	escripri	ve report and
1-0verlay tracing.	• • • • • • •	• • • • • • • • • • • •
The following statistics will be submitted wirepher's report on the sheet:	ith the c	cartog-
Number of positions on sheet		5.012
Number of positions checked		55
Number of positions revised		
Number of soundings revised (refers to depth only)		13
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		0
Topographic details	Time	9. hrs.
Junctions	Time	
Verification of soundings from graphic record	Time	19 has scanned has of peaks of
Verification by	412.45	Date Feb : 15, 1963
Reviewed by Meskul Time	84	3-/-65 Date



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8449

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/25/60	1108	E & Thomas	Before Verification and Review
//		,	Examinel, Verification and Review
4/1/60	343	the R. Willman	Before Verification and Review
6-20-60	7/	9.m albert	add east the thrucht. 1209 Before After Verification and Review
9/30/60	1209	TWalker	Before After Verification and Review
1	1 /	0'	Examined - nothing applied with the
2-25-61	1107	R.E. Elkins	Before After Verification and Review Parkly applied
	.70.7	2.5	Hun cht 1108 dy 27, no wision.
2-25-61	70	R.E. Elkins	Before After Verification and Review Portly allfued
			Herore Action Verification and Review Partly affected the dut 1108 day 27, no revision.
10-10-11	NEW CHT	R. K. De Janda	Complete application Before ** Verification and Review, and covered
70-70-61	263	K. He junte	by cht 343 appl Thru that chart
5/23/66	1108	MA Mall	1 /
			No hydro in area of survey consider fully applied:
7/13/66	7/	F. R. Scarce/la	- Return After Verification and Review From Only
7.2750	, ,	7,71.000711772	No Hydro in area of cht.
7-25-66	70	H. Radden	l · · · ·
7 - 23 - 6 - 6	767	71. Radison	Before After Verification and Review Exam on ly
			No hydro Shown in area of the
12/8/67	1107	n. N. Hay	Exam after review, no hydro in area
			consider fully applied
10-14-68	1209	my mad	Exam after review, aga reviewer's
			report only
3/3/69	343	S.H.C. Millan	Exam after review, agg reviewes's report only Applied Fully AFTER YEAFTCATION! REVIEW

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____ H- 8449

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
265	9-11-69	J.T. Gallahan	Full Part-Before After Verification Review Inspection Signed Via
			Drawing No.#6 applied fully area common to cht 343
			apple three that chest:
209	7-7-70	BEennardens	Full Researce After Verification Review Inspection Signed Via
			Drawing No. Appl throught. 265 15
			Full Part Before After Verification Review Inspection Signed Via
		<u></u>	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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